

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P651532

Luminaire Tested: **GALN-SA7D-840-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651532  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-840-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38634.7 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

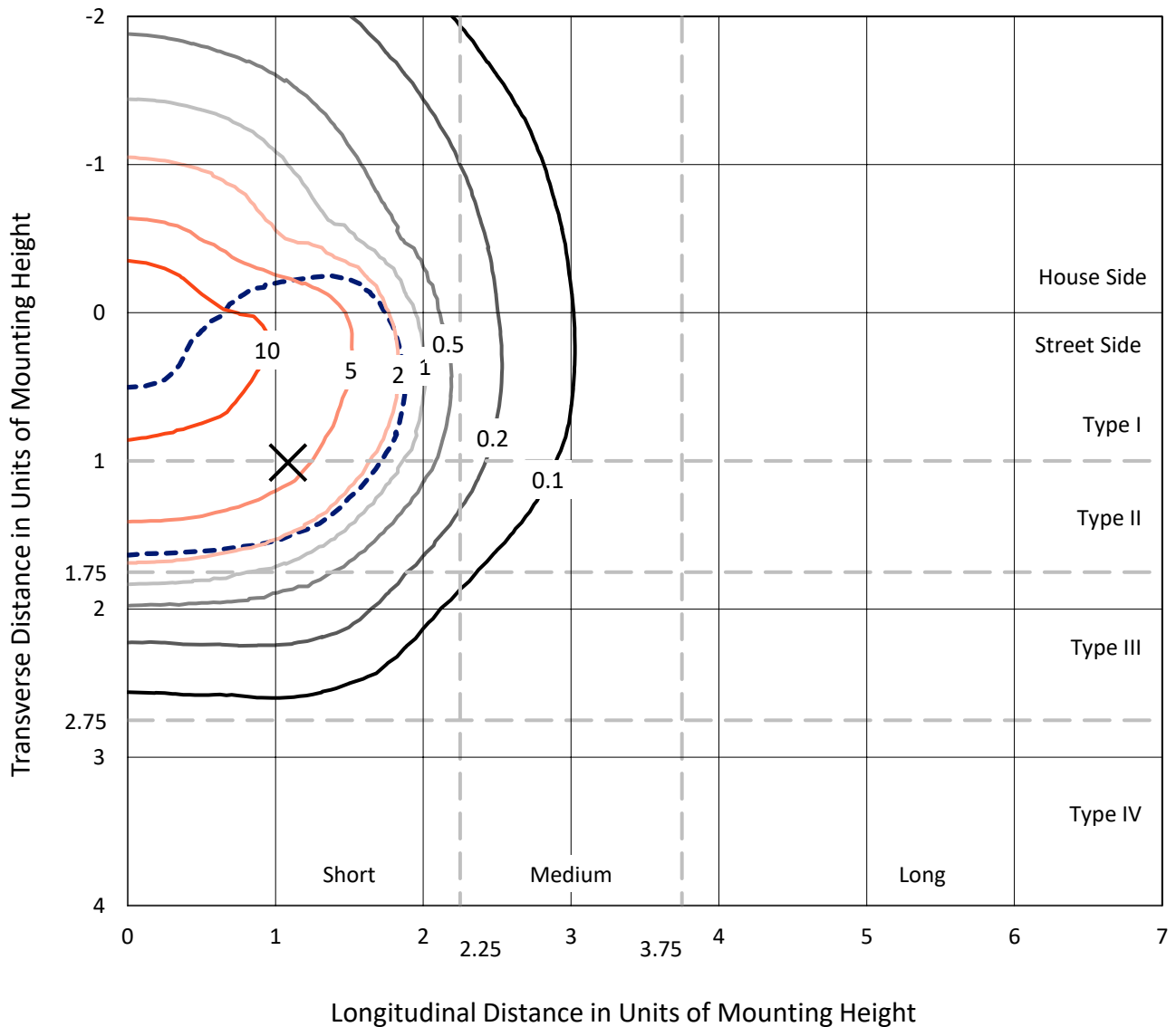
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

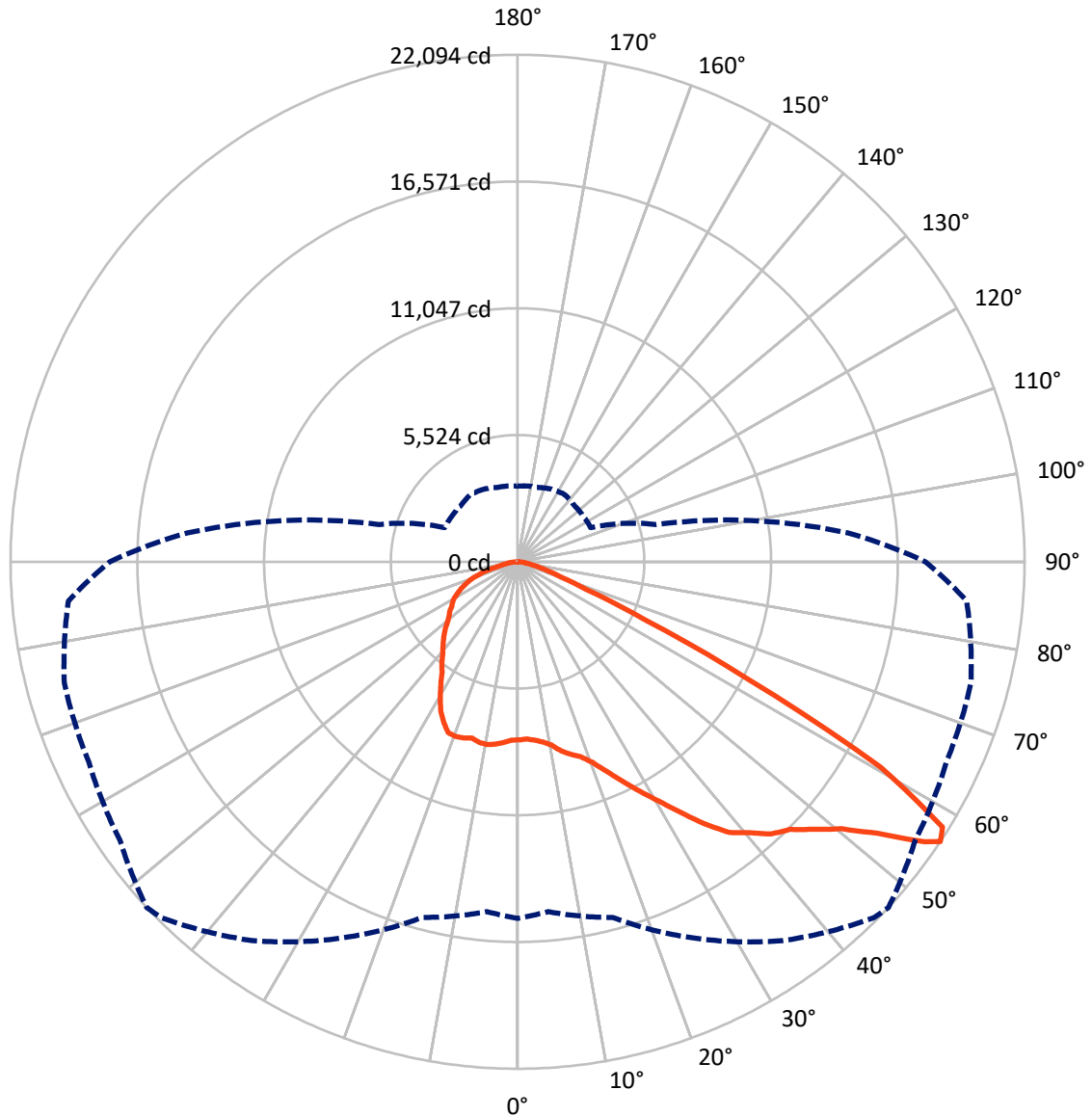
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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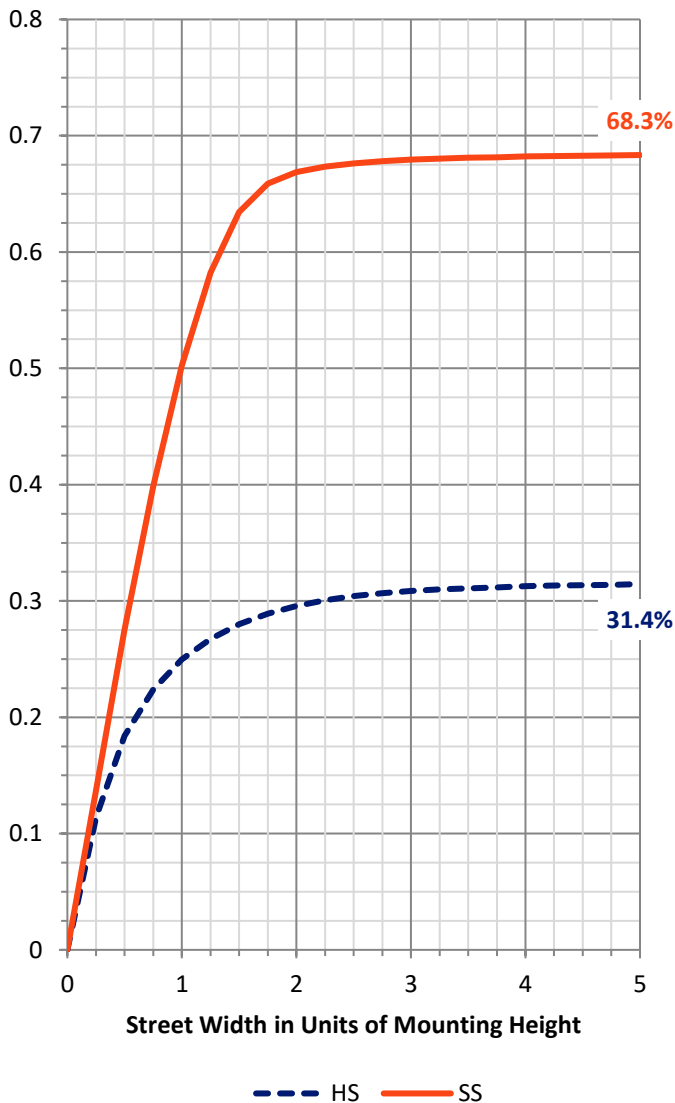
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12242.9	0.0	12242.9
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	26391.8	0.0	26391.8
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	38634.7	0.0	38634.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	756.2	2.0
10°-20°	2385.3	6.2
20°-30°	4216.6	10.9
30°-40°	6333.2	16.4
40°-50°	8691.8	22.5
50°-60°	10355.1	26.8
60°-70°	4431.4	11.5
70°-80°	1254.1	3.2
80°-90°	211.0	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	38634.7	100.0
0°-180°	38634.7	100.0

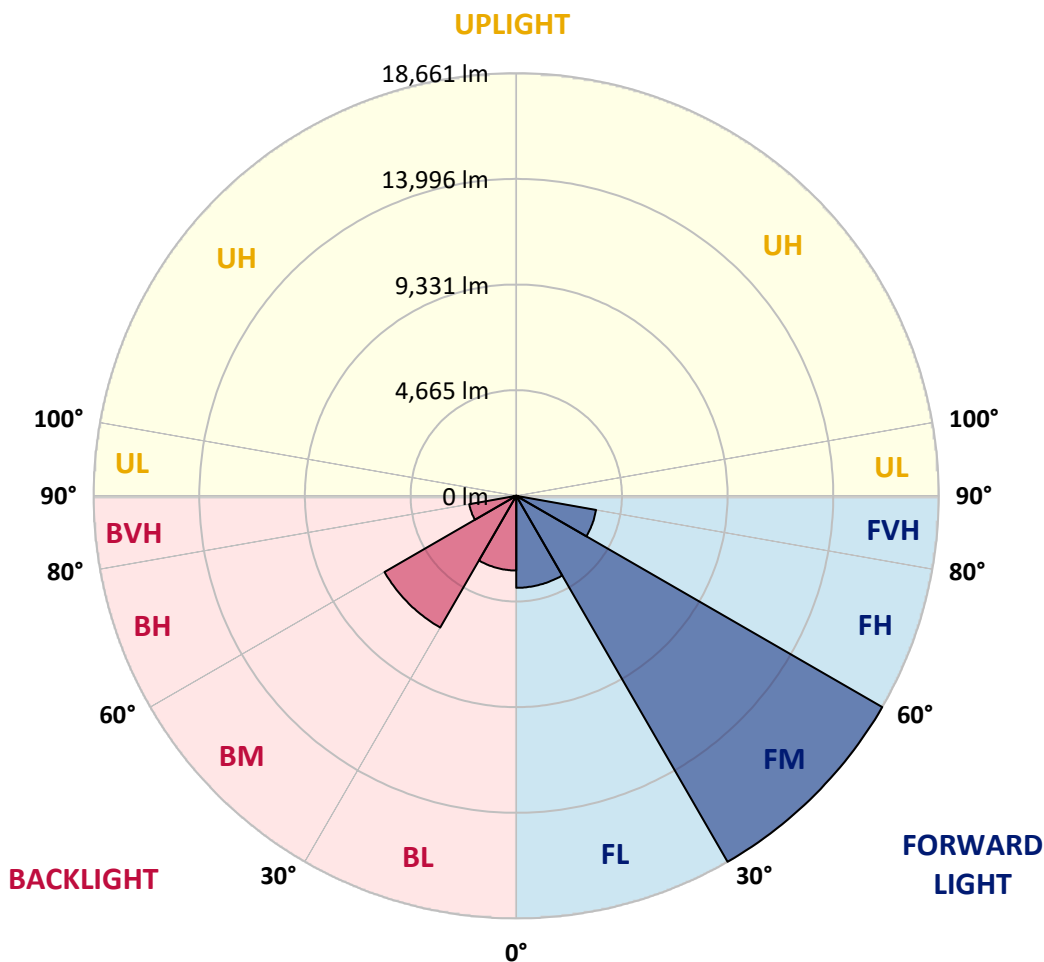


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4061.8	10.5			
FM (30°-60°)	18661.5	48.3			
FH (60°-80°)	3579.0	9.3			G2/5000
FVH (80°-90°)	89.6	0.2			G1/100
BL (0°-30°)	3296.3	8.5	B4/5000		
BM (30°-60°)	6718.7	17.4	B4/8500		
BH (60°-80°)	2106.4	5.5	B3/2500		G3/2500
BVH (80°-90°)	121.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	7760.5	7760.5	7760.5	7760.5	7760.5	7760.5	7760.5	7760.5	7760.5	7760.5	7760.5
2.5°	7731.0	7716.2	7706.3	7785.1	7755.6	7760.5	7731.0	7760.5	7780.3	7735.9	7799.9
5°	7716.2	7760.5	7721.1	7745.8	7809.8	7790.1	7809.8	7868.9	7854.2	7839.4	7819.7
7.5°	7854.2	7859.1	7888.7	7898.5	7918.2	7898.5	7928.1	7982.3	7967.5	7883.7	7893.5
10°	8051.2	8061.1	8066.0	8120.2	8154.8	8159.6	8125.2	8075.9	8071.0	8184.3	8105.5
12.5°	8277.9	8253.2	8312.4	8332.1	8371.6	8415.9	8460.2	8356.8	8420.8	8425.7	8332.1
15°	8608.1	8632.7	8563.7	8563.7	8578.5	8583.4	8706.6	8657.3	8647.4	8593.3	8632.7
17.5°	9100.8	8933.3	8928.3	8859.3	8849.5	8888.9	8933.3	8972.6	9105.7	8997.3	8785.4
20°	9460.5	9499.9	9357.0	9273.2	9288.0	9376.7	9332.3	9509.8	9603.4	9426.0	9219.0
22.5°	10096.1	9963.1	9997.6	9810.3	9825.1	9918.7	9913.8	10096.1	10150.3	9869.5	9568.9
25°	10524.8	10490.3	10519.8	10372.1	10391.7	10465.7	10583.9	10884.5	10795.7	10485.3	9790.6
27.5°	11150.6	11081.5	11056.9	11002.7	10983.0	11180.1	11318.1	11638.3	11574.3	11121.0	10184.8
30°	11791.1	11746.8	11771.4	11549.6	11628.5	12047.3	12086.8	12525.3	12495.7	11697.5	10623.3
32.5°	12234.5	12259.2	12303.5	12180.4	12530.2	12865.3	12998.2	13495.9	13520.6	12687.8	11470.8
35°	12949.0	12865.3	12889.9	13032.8	13195.4	13806.4	14023.2	14353.3	14560.2	13727.6	12283.8
37.5°	13397.4	13486.1	13382.6	13609.3	14033.0	14767.2	14964.2	15304.3	15521.1	14752.4	13392.5
40°	14097.1	13954.2	14028.1	14190.7	14624.3	15580.2	15526.0	15875.8	15944.9	15624.5	14427.2
42.5°	14851.0	14782.0	14678.5	15048.0	15412.7	16107.4	16215.8	16053.3	16403.0	16477.0	15905.4
45°	15752.7	15836.5	15851.2	15861.1	16181.3	16787.4	16639.6	16496.7	16900.7	17437.8	16821.9
47.5°	16590.3	16324.2	16516.4	16782.5	17235.8	17240.8	17413.2	17073.1	17501.9	17979.8	17649.6
50°	16871.1	16743.0	16999.3	17501.9	18201.5	18275.4	18295.2	17812.3	18034.0	18413.4	17935.5
52.5°	16762.7	16718.4	17373.7	18152.2	19177.2	19551.7	19650.1	19053.9	19177.2	19004.7	18566.2
55°	16245.4	16378.4	17038.7	18625.3	20197.1	21355.0	21542.3	20788.4	20005.0	20138.0	19655.1
56°	15535.9	15304.3	16043.3	18088.2	20152.8	21941.4	22094.2	21153.0	20620.8	20448.4	19645.3
57.5°	13180.6	12880.0	13850.7	16274.9	19034.3	21719.7	21832.9	21305.7	20517.4	20167.5	18211.4
60°	7716.2	7864.0	9095.8	11224.4	14683.4	17807.3	18186.8	18571.1	18043.8	16477.0	13555.1
62.5°	3725.0	3631.4	4513.4	6435.1	8948.0	11367.4	11254.0	12333.1	12924.4	11707.3	8558.8
65°	1951.2	1941.4	2463.6	3513.2	4917.5	5971.9	6075.4	6656.9	7469.8	6031.1	4345.9
67.5°	1433.8	1473.3	1734.4	2468.6	3163.3	3227.4	3212.6	3503.4	3582.2	3030.3	2670.6
70°	1123.4	1143.2	1335.3	1877.3	2355.2	2108.9	2064.6	2099.1	2330.7	2429.1	2310.9
72.5°	813.0	832.8	995.3	1266.3	1473.3	1438.8	1468.3	1660.5	1946.3	2049.8	1926.6
75°	542.0	556.8	645.5	773.6	872.1	941.1	995.3	1217.0	1483.1	1542.2	1483.1
77.5°	374.5	389.3	448.4	546.9	556.8	601.1	620.8	724.4	886.9	960.8	921.4
80°	211.8	211.8	241.5	280.9	344.9	404.0	413.9	497.6	571.5	620.8	630.7
82.5°	98.6	103.4	128.1	172.5	226.6	280.9	290.7	344.9	399.1	448.4	463.1
85°	49.3	54.2	73.9	103.4	137.9	167.5	162.6	167.5	177.4	167.5	172.5
87.5°	14.8	14.8	19.7	24.6	19.7	24.6	24.6	29.6	34.5	39.4	44.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7760.5	7760.5	7760.5	7760.5	7760.5	7760.5	7760.5	7760.5	7760.5	7760.5	7760.5
2.5°	7804.9	7819.7	7721.1	7814.7	7780.3	7775.3	7844.3	7834.4	7859.1	7849.2	7790.1
5°	7809.8	7775.3	7878.8	7785.1	7829.5	7923.1	7859.1	8006.9	7933.0	7982.3	7873.9
7.5°	7962.6	7972.4	7952.7	7992.1	7972.4	8016.7	7982.3	8016.7	7957.6	7962.6	8061.1
10°	8095.6	8066.0	8100.5	8051.2	8085.7	8071.0	7992.1	7967.5	7987.2	7962.6	8026.6
12.5°	8342.0	8287.8	8263.2	8204.0	8164.6	8016.7	7893.5	7824.6	7918.2	7933.0	7903.5
15°	8593.3	8598.2	8484.8	8351.8	8105.5	7883.7	7913.3	7937.9	7937.9	7977.3	7903.5
17.5°	8750.9	8750.9	8647.4	8381.4	8130.1	8001.9	7972.4	7893.5	7824.6	7814.7	7809.8
20°	9026.9	8943.1	8706.6	8376.4	8120.2	8061.1	7839.4	7652.2	7509.2	7460.0	7455.0
22.5°	9342.2	9130.3	8800.2	8386.3	8105.5	8021.7	7607.8	7327.0	7070.7	6962.3	6977.1
25°	9632.9	9293.0	8854.4	8342.0	8051.2	7647.2	7184.1	6794.8	6528.7	6440.0	6395.6
27.5°	9834.9	9465.4	8854.4	8381.4	7849.2	7228.4	6755.3	6257.7	6026.1	5967.0	5976.8
30°	10106.0	9682.2	9007.1	8297.6	7445.2	6686.4	6119.7	5794.6	5656.6	5607.3	5641.8
32.5°	10741.6	10248.8	9219.0	8095.6	6967.3	6144.3	5686.2	5503.8	5301.8	5203.3	5168.8
35°	11431.4	10785.9	9426.0	7755.6	6430.1	5651.6	5365.8	5198.3	4956.9	4848.4	4868.2
37.5°	12407.0	11475.8	9440.7	7193.9	5848.7	5375.7	5114.5	4853.4	4656.3	4488.8	4439.6
40°	13722.6	12416.9	9406.2	6602.6	5380.6	5050.5	4858.4	4533.2	4311.4	4193.1	4217.8
42.5°	14880.5	13520.6	9263.4	5932.5	4956.9	4828.8	4612.0	4291.7	4074.9	3951.7	3941.9
45°	15856.1	14333.6	8992.4	5361.0	4602.1	4582.4	4331.2	4084.7	3912.3	3799.0	3848.2
47.5°	16757.9	14988.9	8583.4	4789.3	4276.9	4316.3	4074.9	3922.2	3813.8	3710.2	3705.4
50°	17083.1	14979.1	8223.7	4316.3	4015.8	3996.1	3986.2	3823.6	3710.2	3621.6	3661.0
52.5°	17625.0	15146.6	7834.4	3991.1	3779.3	3784.2	3818.6	3700.4	3572.3	3518.1	3567.4
55°	18403.5	15171.2	6977.1	3611.8	3582.2	3616.6	3616.6	3537.8	3429.4	3385.1	3360.5
56°	17768.0	14437.0	6257.7	3513.2	3483.6	3483.6	3577.3	3488.6	3355.5	3321.0	3291.4
57.5°	16388.3	12648.5	5237.7	3394.9	3350.5	3419.6	3468.9	3375.2	3252.1	3202.8	3232.3
60°	11303.3	8558.8	3937.0	3138.7	3138.7	3252.1	3291.4	3153.5	3099.3	3094.4	3054.9
62.5°	6597.7	4986.5	3079.6	2907.1	2917.0	3010.6	3040.1	2961.3	2892.4	2976.1	3015.5
65°	3498.4	2976.1	2641.1	2660.8	2665.7	2739.6	2867.7	2862.8	2857.9	2882.4	2887.4
67.5°	2532.7	2473.5	2399.6	2379.9	2389.8	2443.9	2572.0	2670.6	2665.7	2606.6	2562.2
70°	2256.7	2173.0	2128.6	2133.5	2094.1	2158.2	2261.6	2325.7	2212.3	2143.4	2113.9
72.5°	1877.3	1852.6	1823.1	1828.0	1749.2	1734.4	1616.1	1616.1	1586.6	1566.9	1601.3
75°	1433.8	1424.0	1438.8	1414.1	1330.4	1241.7	1172.7	1108.6	1010.1	970.7	951.0
77.5°	906.6	936.2	970.7	916.5	882.0	818.0	749.0	684.9	606.0	561.7	561.7
80°	615.9	640.6	665.1	655.3	615.9	556.8	502.6	433.6	379.4	344.9	340.0
82.5°	468.1	487.8	522.3	482.9	443.5	394.2	349.9	300.6	251.3	211.8	211.8
85°	167.5	192.2	211.8	231.6	246.3	251.3	216.8	177.4	142.9	113.4	108.4
87.5°	44.3	49.3	54.2	49.3	49.3	49.3	54.2	49.3	44.3	34.5	34.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)